

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	10/10/2018 10/10/2018	David Julian

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0341_01_f_2014_13				
Comment Code					
Inspector Comment					
District has the O+M Manual on hand.					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0341_01_f_2014_14				
Comment Code					
Inspector Comment					
District has emergency supplies stored.					

No Photos

LM Start		Rating **	A	Issue No.	15
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0341_01_f_2014_15				
Comment Code					
Inspector Comment					
District is prepared for a flood fight.					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

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Unit No. 01 Threemile Slough	Right	3.36	10/10/2018 10/10/2018	David Julian

LM Start	0.00	Rating **	A	Issue No.	25
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.085507°	38.085507°
				-121.686528°	-121.686528°
DWR ID	DWR_RD0341_01_f_2018_25				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Vegetation is well maintained.					

Photo 1 of 1 : FA_2018_RD0341_167_25_20181011_00051.jpg



View looking downstream of well maintained vegetation on the land side slope. Vegetation looks like this the whole unit (October 2018).

LM Start	0.00	Rating **	A	Issue No.	26
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.085507 °	38.085507 °
				-121.686528 °	-121.686528 °
DWR ID	DWR_RD0341_01_f_2018_26				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Vegetation is well maintained.					

Photo 1 of 1 : FA_2018_RD0341_167_26_20181011_00050.jpg



View looking downstream at well maintained vegetation on the water side slope. Vegetation looks like this for the whole unit (October 2018).

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
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Unit No. 01 Threemile Slough	Right	3.36	10/10/2018 10/10/2018	David Julian

LM Start	0.00	Rating **	M	Issue No.	27							
LM End	0.00	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP LMA Responsibility		38.085507°	38.085507°								
			-121.686528°	-121.686528°								
DWR ID	24215											
Comment Code												
Inspector Comment												
FS_ID:52252 DS_ID:24215 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/05/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 30-inch steel drainage pipe through the levee, 11.1 feet below the crown. Corrugated metal cutoff wall around pipe at the center of the levee. Siphon breaker is located on both waterside (WS) and landside (LS). Pump is located on the LS approximately 300 feet from LS toe. Pipe is exposed on both levee slopes. Rock revetment present along WS slope. Marine Station number 1 located on WS with an attached small solar panel on top. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 0.0). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 175+00]. FS Date: 5/5/2009												

LM Start	0.00	Rating **	M	Issue No.	27 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_52252_37640.jpg



Marine station posts in river identified as Station 1 near crossing.

Photo 2 of 3 : UCIP_FA_2018_52252_37644.jpg



View of pipe and siphon breaker located on WS--dense vegetation on slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	10/10/2018 10/10/2018	David Julian

LM Start	0.00	Rating **	M	Issue No.	27 (cont)					
LM End	0.00	Issue Type +	Ma	Location *						
Category	Supplemental		GPS Latitude/Longitude							
			Start	End						
Item	DWR UCIP LMA Responsibility		38.085507 °	38.085507 °						
			-121.686528 °	-121.686528 °						
DWR ID	24215									
Comment Code										
Inspector Comment										
FS_ID:52252 DS_ID:24215 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/05/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 30-inch steel drainage pipe through the levee, 11.1 feet below the crown. Corrugated metal cutoff wall around pipe at the center of the levee. Siphon breaker is located on both waterside (WS) and landside (LS). Pump is located on the LS approximately 300 feet from LS toe. Pipe is exposed on both levee slopes. Rock revetment present along WS slope. Marine Station number 1 located on WS with an attached small solar panel on top. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 0.0). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 175+00]. FS Date: 5/5/2009										

Photo 3 of 3 : UCIP_FA_2018_52252_37642.jpg



Overview of LS slope above ground once it exits levee. Pump is located approximately 300 feet from levee toe.

LM Start	2.19	Rating **	M	Issue No.	21					
LM End	2.19	Issue Type +	Ma	Location *	WS					
Category	Earthen Levee		GPS Latitude/Longitude							
			Start	End						
Item	Encroachments		38.113144 °	38.113144 °						
			-121.687601 °	-121.687601 °						
DWR ID	DWR_RD0341_01_s_2018_21									
Comment Code										
TR : Tree or limb										
Inspector Comment										
Remove fallen tree on waterside slope.										

Photo 1 of 1 : FA_2018_RD0341_167_21_20180925_00002.jpg



Fallen tree on waterside slope should be removed.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	10/10/2018 10/10/2018	David Julian

LM Start	3.21	Rating **	M	Issue No.	22
LM End	3.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.104677 °	38.104677 °
				-121.700030 °	-121.700030 °
DWR ID	DWR_RD0341_01_f_2017_22				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation on land side slope.					

Photo 1 of 1 : FA_2018_RD0341_167_22_20180925_00003.jpg



Remove or thin wild vegetation at base of electrical transmission tower to allow visibility and access to slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	10/10/2018 10/10/2018	David Julian

LM Start	3.36	Rating **	C	Issue No.	36
LM End	3.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.105315 °	38.098158 °
				-121.702537 °	-121.706320 °
DWR ID	DWR_RD0341_02_s_2017_36				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Weeds have been reduced to an acceptable level in this area.					

No Photos

LM Start	3.36	Rating **	M	Issue No.	40
LM End	3.94	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.105315 °	38.098158 °
				-121.702537 °	-121.706320 °
DWR ID	DWR_RD0341_02_s_2017_40				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth from the waterside slope.					

No Photos

LM Start	3.48	Rating **	M	Issue No.	44
LM End	3.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.104454 °	38.104454 °
				-121.704275 °	-121.704275 °
DWR ID	DWR_RD0341_02_s_2018_44				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree limbs from waterside shoulder.					

Photo 1 of 1 : FA_2018_RD0341_168_44_20180925_00007.jpg



Tree limbs on waterside shoulder should be removed.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Reclamation District No. 0341 Sherman Island

No Photos

Tree trunk and limbs should be removed from waterside shoulder.

Vegetation looking downstream at the beginning of where the levee is on Highway 160 (October 2018).

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	10/10/2018 10/10/2018	David Julian

LM Start	3.94	Rating **	U	Issue No.	41 (cont)	
LM End	6.14	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.098158°	38.080223°	
				-121.706320°	-121.730312°	
DWR ID	DWR_RD0341_02_s_2017_41					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Remove the unwanted vegetation from the waterside shoulder and slope.						

Photo 2 of 2 : FA_2018_RD0341_168_41_20180925_00002.jpg



Looking downstream from levee mile 3.94 at tall unwanted weeds and other vegetation on the waterside shoulder and slope.

LM Start	3.97	Rating **	M	Issue No.	43
LM End	6.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.097782 °	38.080143 °
				-121.706262 °	-121.728330 °
DWR ID	DWR_RD0341_02_f_2017_43				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the unwanted vegetation from the landside shoulder, slope and toe.					

Photo 1 of 2 : FA_2018_RD0341_168_43_20181011_00082.jpg



View of vegetation on the land side slope where the levee is on Highway 160 (October 2018).

LM Start	3.97	Rating **	M	Issue No.	43 (cont)
LM End	6.03	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2018_RD0341_168_43_20180925_00006.jpg



Remove the unwanted vegetation from the landside shoulder, slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	10/10/2018 10/10/2018	David Julian

LM Start	4.00	Rating **	M	Issue No.	37
LM End	4.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.097398 °	38.094590 °
				-121.706321 °	-121.706393 °
DWR ID	DWR_RD0341_02_f_2018_37				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 8.2 L					
Status: Eroding					
2017 Field Notes: Minor new erosion.					
Site History: 2011 - Large new erosion pocket probably hidden by vegetation in the past.					

Photo 1 of 1 : FA_2018_RD0341_168_37_20181023_00086.jpg



USACE 2013 Photo #1

LM Start	4.47	Rating **	U	Issue No.	35	
LM End	4.70	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 USACE Erosion Survey, DRAFT			38.090620 °	38.087425 °	
				-121.706684 °	-121.707639 °	
DWR ID	DWR_RD0341_02_f_2018_35					
Comment Code						
Inspector Comment						
2017 Site ID: SAC 8.0 L						
Status: Critical						
2017 Field Notes: Site extended downstream						
Site History: 1999 - New small slump in eroded bank. 2005 - Reach extended because of vertical bank along the roadway upstream. 2011 - More slumping since last year. 2012 - Site upgraded to critical. Very steep slope which may be effecting the highway on top of the levee. 2015 - New erosion towards the downstream end of site.						

Photo 1 of 1 : FA_2018_RD0341_168_35_20181023_00085.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	10/10/2018 10/10/2018	David Julian

LM Start	4.75	Rating **	A/W	Issue No.	42
LM End	4.79	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.086641 °	38.086119 °
				-121.707545 °	-121.707912 °
DWR ID	DWR_RD0341_02_f_2017_42				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description:

Site ID No:65

Site Designation:DWR_RD0341_02_s_2012_8

Repair Type: Erosion

Rating:Area of Concern

Field Date:6/8/2017

Notes: hwy 160 forms levee crown road, erosion has encroached into paved crown, crown 38' wide. This site is currently under contract for repair under FSRP.

LM Start	4.75	Rating **	A/W	Issue No.	42 (cont)
LM End	4.79	Issue Type +	Ma	Location *	

Photo 1 of 3 : FA_2018_RD0341_168_42_20180925_00003.jpg



Photo 2 of 3 : FA_2018_RD0341_168_42_20180925_00004.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	10/10/2018 10/10/2018	David Julian

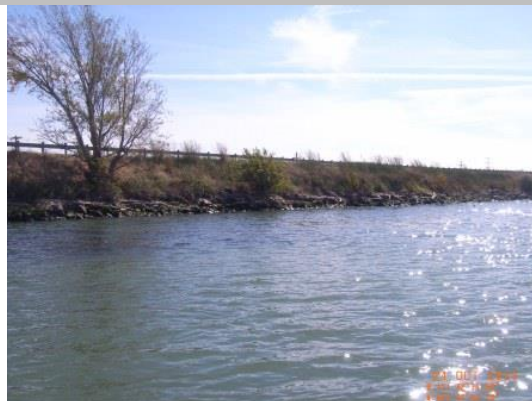
LM Start	4.75	Rating **	A/W	Issue No.	42 (cont)	
LM End	4.79	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.086641 °	38.086119 °	
				-121.707545 °	-121.707912 °	
DWR ID	DWR_RD0341_02_f_2017_42					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:65						
Site Designation:DWR_RD0341_02_s_2012_8						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/8/2017						
Notes: hwy 160 forms levee crown road, erosion has encroached into paved crown, crown 38' wide. This site is currently under contract for repair under FSRP.						

Photo 3 of 3 : FA_2018_RD0341_168_42_20180925_00005.jpg



LM Start	4.76	Rating **	A/W	Issue No.	34
LM End	5.01	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.086603 °	38.083954 °
				-121.707786 °	-121.710589 °
DWR ID	DWR_RD0341_02_f_2018_34				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 7.9 L					
Status: Critical					
2017 Field Notes: Road base exposed in multiple locations. New tree popout observed.					
Site History: 2011 - Large slump section. 2012 - Site extended downstream, upgraded to critical, severe windwave. Slope is very steep and may be effecting the highway on top of the levee.					

Photo 1 of 1 : FA_2018_RD0341_168_34_20181023_00084.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	10/10/2018 10/10/2018	David Julian

LM Start	5.44	Rating **	M	Issue No.	33
LM End	5.55	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.081801 °	38.081584 °
				-121.717915 °	-121.719794 °
DWR ID	DWR_RD0341_02_f_2018_33				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 7.5 L					
Status: Eroding New					
2017 Field Notes: Erosion along levee slope, erosion appears to mainly be human caused, but it is threatening the integrity of the Hwy on top of the levee.					
Site History:					

No Photos

LM Start	5.55	Rating **	M	Issue No.	11
LM End	5.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.081270 °	38.080807 °
				-121.719702 °	-121.723488 °
DWR ID	DWR_RD0341_02_f_2014_11				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim up the trees on the waterside slope so the ground can be seen.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	10/10/2018 10/10/2018	David Julian

LM Start	6.03	Rating **	U	Issue No.	49
LM End	6.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.080143 °	38.080125 °
				-121.728332 °	-121.729662 °
DWR ID	DWR_RD0341_02_f_2016_49				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the bamboo from the landside levee slope.					

Photo 1 of 1 : FA_2018_RD0341_168_49_20180925_00010.jpg



RD 341 Landside slope from levee mile 6.03-6.10 tall unwanted growth of Arundo present on the levee section.

LM Start	6.03	Rating **	U	Issue No.	32
LM End	6.16	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.080370 °	38.080526 °
				-121.728341 °	-121.730483 °
DWR ID	DWR_RD0341_02_f_2018_32				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 7.3 L					
Status: Critical					
2017 Field Notes: No observed change..					
Site History: 2011 - Large slump at downstream end. Gully formed from surface runoff from the road. Shallow slumping throughout site.					
2012 - The gully at upstream end has increased in size and site continues to worsen.					

Photo 1 of 1 : FA_2018_RD0341_168_32_20181023_00083.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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